

Work Experience

Simply Structural | September 2014 – Present
Tempe, Arizona

Structural Engineer

Structural Engineering: Design of residential, commercial, and industrial structures utilizing wood, steel, concrete, masonry, and cold-formed steel.

Select Structural Engineering | June 2012 – September 2014
Cedar Rapids, Iowa

Structural Engineer

Structural Engineering: Design of residential, commercial, industrial, and agricultural structures utilizing wood, steel, concrete, masonry, cold-formed steel, and precast concrete.

Plan Review: Comment on and review other's (non-licensed engineers): plans, details, calculations, and notes. Engineer of record, management, and training responsibilities.

Work closely with drafting staff to create plans and details in both AutoCAD and Revit.

Responsible for complete re-write of General Structural Notes for conformance with the 2012 IBC/ASCE 7-10.

IAP Worldwide Services | November 2013 – December 2013
Al Dhafra AB, Abu Dhabi, UAE

Structural Engineer

Structural Engineering: Design, review and construction administration of air base facilities, buildings, and infrastructure.

Duke Energy | Oct. 2009 – May 2012
Plainfield, Indiana

Civil Engineer

Civil and Structural Design: Electrical substation physical layout and design. Coordinate substation requirements and equipment selection with electrical engineers. Performed updates to structural standards to conform with contemporary code requirements.

Procurement and Construction: Attend site meetings to discuss construction requirement as well as assess existing site conditions. Create and approve work orders for required project materials.

Vertex Consulting Structural Engineers, LLC | Oct. 2006 – Sept. 2009
Scottsdale, Arizona

Structural Designer

Licensures & Certifications

California | **Structural Engineer [pending]**
California | **Professional Civil Engineer (C 79436)**
Arizona | **Professional Structural Engineer (59588)**
Texas | **Professional Engineer (118061)**
Iowa | **Professional Civil Engineer (21741)**
Ohio | **Professional Civil Engineer (78782)**
Oklahoma | **Professional Civil Engineer (27307) [inactive]**
NCEES Structural Engineering Exam | **Passed**
CalEMA | **Safety Assessment Program Evaluator Training**

Education

Arizona State University - Civil Engineering | Aug. 2004 - May 2009

Bachelor of Science in Civil Engineering | Emphasis Construction Engineering

Qualifications

Structural Engineering: Communicate with architect from initial concept of project and create structural drawings, calculations, and details to meet architectural, functional, and structural demands. Proficient in engineering software: Enercalc V6, Risa-3D, RISA Connection, Staad.Foundation, RAMAdvance, Lpile, Vendor Software (PROFIS, SteelSmart, Forte, etc) AutoCAD, REVIT, Inventor 2011, Excel.

Construction: Perform special structural inspections, create plans/ calculations and follow through building department review, check shop drawings for conformance with design specifications and intent.

Administrative/Management: Compose detailed project proposals for bidding and contract purposes; including, selection of price and timeline estimates. Provide support to engineering staff for technical needs and questions. Act as mentor and supply training to team of structural designers.

Substation Design: Understanding of electrical code: setbacks, spacing, and clearances for high voltage equipment up to 345kV. Experienced in selecting electrical bus, switches and other associated equipment.

Company Life: Have worked in variety of environments: small business, industrial and large corporation; often performing several roles within an organization.

Technical Literacy: Extensive computer skills including engineering and business applications, graphic and video editing software, server administration, network configuration, and desktop management.

Volunteer & Extracurricular Activities

ImagiNations 2009 Design Competition - Walt Disney Imagineering June 2008 – April 2009

Led a four-person team, from ASU, in creating a design submission for the annual Disney ImagiNations contest. This project included floor plans, elevations, architectural design, and 3-D modeling. Project submission qualified for the semi-final judging round.

Proselyting Service Missionary - Tempe, Arizona | Feb. 2001 – Dec. 2002

Served as a full-time proselyting missionary for The Church of Jesus Christ of Latter-day Saints. Appointed as a supervisor over several other volunteer missionaries.

Professional Associations

Member | **Structural Engineers Association of Arizona**

Projects of Note

VA Hospital | **Phoenix, Arizona (2015)**

Preliminary design of steel moment framed six story hospital. Full design of basement and first floor with accommodations for future structure above.

Quick Quack Car Wash | **Sacramento, California (2016)**

Design of retail car wash center utilizing special reinforced masonry shear walls.

Kingston Commons | **Cedar Rapids, Iowa (2013)**

Six story condominiums constructed with bolted steel moment frames.

Parc 17 Warehouse | **Phoenix, Arizona (2015)**

Two warehouse buildings constructed with tall-slender concrete tilt-panels and steel braced frames. Panel design performed for both in-plane and out-of-plane loading in RISA 3D.

808 on 5th | **Coralville, Iowa (2014)**

Four story wood-framed residential structure on a two story precast concrete podium. An intricate lateral design was created using interior shear walls collected at the precast concrete podium.

Coventry Gardens Mall | **Cedar Rapids, Iowa (2014)**

Extensive renovation of a 100 year old three story wood structure. Former retail space was converted into condominiums. The renovation consisted of reinforcing the existing floor systems with cold-formed steel and removing two existing three story brick walls and replacing with a concrete form masonry unit system.